PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF MD 30 (HANOVER PIKE) AND MAPLE GROVE ROAD IN CARROLL COUNTY.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A NEMA 6 BASE MOUNTED CONTROLLER CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION SHALL OPERATE IN A FULLY ACTUATED MODE USING 4 NEMA PHASES, OVERHEAD VIDEO DETECTION CAMERAS SHALL BE INSTALLED FOR THE LEFT TURN ACTUATION OF SOUTHBOUND MD 30 AND THE PRESENCE DETECTION OF MAPLE GROVE

NOTES

- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION. 3. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
 4. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- 6. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT, IF ANY UTILITIY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- 7. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALL AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

SPECIAL NOTES

B. EQUIPN

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC

PHONE: (301) 624-8140

MR. JOHN HUCHROWSKI, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (301) 624-8200

MR. RAYMOND JOHNSON, ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 624-8105

MS. ANDREA ABEND, UTILITY ENGINEER PHONE: (301) 624-8115

MR. ED RODENHIZER, CHIEF OF SIGNAL SHOP OPERATIONS

PHONE: (410) 787-7650

MR. EUGENE BAILEY, CHIEF OF SIGN SHOP OPERATIONS

PHONE: (410) 787-7670

MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MR. ROBERT SNYDER , ASSISTANT DIVISION CHIEF OF TOD PHONE: (410) 787-7631

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

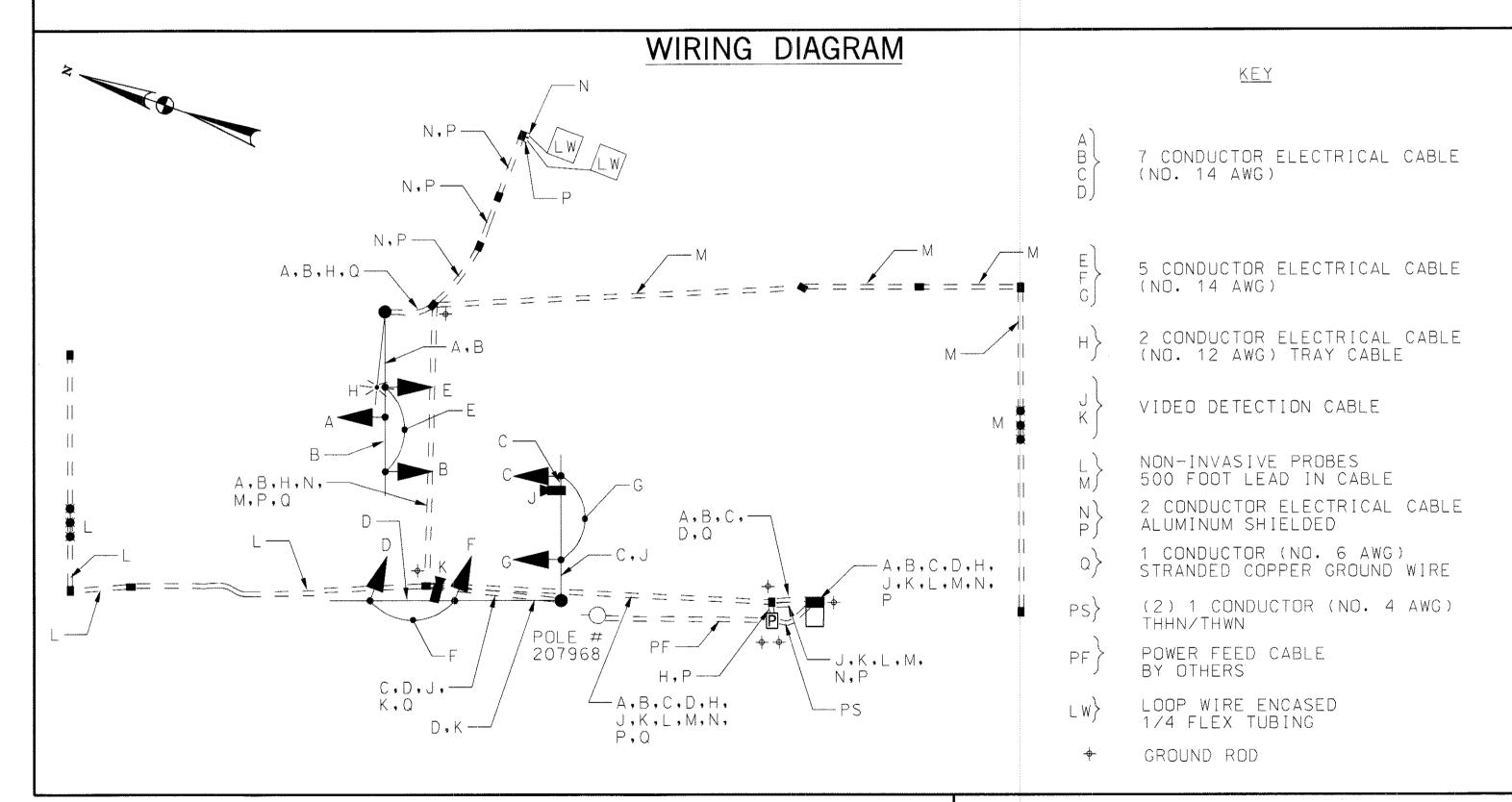
A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

DESCRIPTION	UNITS	QUANTITY
NONE MENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR. DESCRIPTION 4 CHANNEL DETECTOR AMPLIFIER CONTROLLER CABINET, SIZE 6 CONTROLLER ASC II WITH TELEMETRY VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN	UNITS EA EA EA EA SF	QUANTITY 1 1 1 1 1 102
D-3(2) (VAR. x 16") D95-25 (24" X 24") M95-1(MOD) (72" X 40") SHEET ALUMINUM GROUND MOUNTED SIGNS W3-3 (36" X 36") MAINTENANCE OF TRAFFIC TEST PIT EXCAVATION 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVING MARKINGS	E A A A F A A Y E C L F	4 2 1 26 3 1 3 80
12 INCH LED SIGNAL HEAD SECTION RYG 8 INCH LED SIGNAL HEAD SECTION RYG EMBEDDED METERED SERVICE PEDESTAL F & I STEEL MAST ARM POLE WITH TWIN 60 AND 50 FOOT MAST ARMS F & I MAST ARM POLE AND 38 FT MAST ARM NON-INVASIVE DETECTOR, WITH 500 FOOT LEAD IN CABLE VIDEO DETECTION CAMERA AND CABLE 250 FOOT LENGTH 2 INCH PVC SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED 3 INCH PVC SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED 4 INCH PVC SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED 3 INCH PVC SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED NO. 6 AWG STRANDED BARE COPPER GROUND WIRE ELECTRICAL CABLE 1 - CONDUCTOR NO. 4 AWG - THHN/THWN FURNISH AND INSTALL ELECTRICAL HANDHOLE	LF LF EA LF	24 31 11 22 1305 1305 1305 1305 1305 1305 1305 1305

PHASE CHART

1	2	3	4	5	6	-
R Y G	R Y G	4 Y−R 4 G G	R Y-Y GGG	R Y G	R Y G	

FHASE 1 AND 6	R	R	⋖ G/G−	⋖ G/G-	G	R	R	1
1 CHANGE	R	R	∢Y/G-	∢Y/G—	G	R	R	>
PHASE 2 AND 6	G	G	G	G	G	R	R	←
2 AND 6 CHANGE	Υ	Υ	Υ	Y	Y	R	R	→
PHASE 4	R	R	R	R	R	G	G	
4 CHANGE	R	R	R	R	R	Υ	Υ	_
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	





STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 30 (HANOVER PIKE) AT MAPLE GROVE ROAD

MANCHESTER, MARYLAND

GENERAL INFORMATION PLAN

DATE DECEMBER, 2008 CONTRACT NO. BW996M82 SCALE N.T.S. COUNTY CARROLL DESIGNED BY S. SMITH LOGMILE __06003005.69 S. SMITH CHECKED BY P. SILBERMAN TOD NO. F.A.P. NO.

DRAWING 2 OF 2

SHEET NO.

SABRA, WANG & ASSOCIATES, INC 1504 JOH AVENUE SUITE 160 BALTIMORE, MD 21227 (410) 737-6564 WWW.SABRA-WANG.COM

TS NO. 4701-GI